



## Safety Data Sheet

### Section 1 – Identification

**Product Identifier:** Barbicide Concentrate

**Other means of Identification:** Disinfecting solution

*Name and Address of Responsible Parties:*

**King Research, Inc**

7025 W. Marcia Rd.

Milwaukee, WI 53223

**Information Telephone #:** 1-800-222-8160

**24 Hr. Emergency Telephone Number:** INFOTRAC- 1-800-535-5053

**International 24 Hr. Emergency Telephone Number:** INFOTRAC – 1-352-323-3500

**Contract # - 106253**

### Section 2 – Hazards Identification

**Classification of the Chemical:** Clear dark blue liquid. Alcohol and disinfectant odor.

This material is classified as hazardous under OSHA regulations (29 CFR 1910.1200) (Hazcom 2012).

**Hazardous classification:** Flammable liquid – Category 3  
Skin irritation – Category 2  
Eye irritation – Category 2A

**Label elements:**

**Signal Word:** Warning

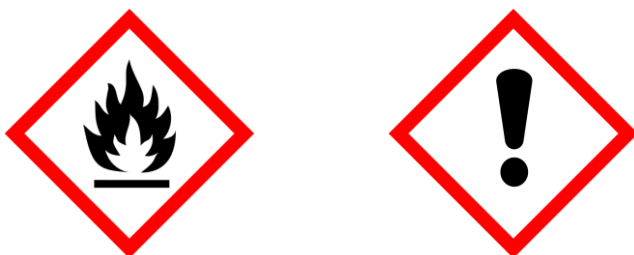
**Hazard Statements:** Flammable liquid and vapor.  
Causes Skin irritation.  
Causes Serious Eye irritation.

**Precautionary Statements:** Keep away from heat, sparks, open flames and hot surfaces.  
No smoking.  
In case of fire: Use water fog, Carbon dioxide, Dry chemical or Foam to extinguish.  
Ground/Bond container and receiving equipment.  
Take precautionary measures against static discharge.

## Section 2 – Hazards Identification (continued)

Keep container tightly closed.  
 Store in a well ventilated place. Keep cool.  
 Wash hands thoroughly after handling.  
 If on Skin: Wash with plenty of soap and water.  
 If skin irritation occurs get medical advice/attention.  
 Take off contaminated clothing and wash before reuse.  
 Wear protective gloves.  
 Wear eye protection such as goggles or safety glasses with side shields.  
 If in eyes: Rinse cautiously with water for 15 minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing.  
 If eye irritation persists get medical advice/attention.  
 Do not eat, drink or smoke when using this product.  
 If swallowed: Immediately call a poison center/physician, Rinse mouth.  
 Dispose of contents/container in accordance with local, state, federal or international regulations.

### Hazard Pictogram(s):



### Other Hazards not otherwise classified:

This product contains 1.05% ingredients of an unknown acute toxicity. See section 11 for more information.

## Section 3 – Composition/Information on Ingredients

Chemical Name, Common Name	CAS #	Concentration wt/wt(*)
Isopropyl alcohol	67-63-0	5-25
Dimethyl benzyl ammonium chloride	68424-85-1	0.5-10
Sodium Nitrite	7632-00-0	0.5-10

**\* Note: The exact concentrations of the chemical(s) above are being withheld as a trade secret.**

## Section 4 – First-Aid Measures

### Description of first aid measures:

*Inhalation:* If inhaled remove victim to fresh air and keep at rest. Call a poison center or physician if you feel unwell.

*Skin contact:* Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs get medical advice/attention.

*Eye contact:* If in eyes rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and continue rinsing. If eye irritation persists seek medical advice/attention.

*Ingestion:* Do NOT induce vomiting unless instructed by medical personal. Never give anything by mouth to an unconscious person. Get medical attention.

### Most important symptoms and effects, both acute and delayed:

Causes skin irritation.

Causes eye irritation.

Ingestion may cause gastrointestinal irritation, nausea, vomiting, diarrhea.

### Indication of any immediate medical attention and special treatment needed:

Treat symptomatically

## Section 5 – Fire-Fighting Measures

### Extinguishing media:

*Suitable extinguishing media:* Water fog, Carbon dioxide, Dry chemical, Foam

*Unsuitable extinguishing media:* Not available

**Special hazards arising from the substance or mixture:** None Known

**Flammability classification:** (OSHA 29 CFR 1910.106) (Hazcom 2012): Flammable liquid – Category 3

**Hazardous combustion products:** Carbon oxides, other unidentified organic compounds.

### Special protective equipment and precautions for firefighters:

*Protective equipment for fire-fighters:* Firefighters should wear proper protective equipment (Bunker gear) and self-contained breathing apparatus with full face operated in positive pressure mode.

## Section 6 – Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures:

All persons dealing with the clean-up should use the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in section 7 and 8.

### Methods and materials for containment and clean up:

Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent run-off into drains, sewers, or any natural waterway or drinking supply. Ventilate the area. Remove all sources of ignition. Soak up with inert absorbent material. Scoop up material and place into suitable container(s). Dispose of according to local, state and federal regulations.

## Section 7 – Handling and Storage

### Precautions for safe handling:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye/face protection. Adequate ventilation should be supplied. Avoid contact with skin, eyes and clothing. Keep away from heat and ignition sources. Ground/Bond container and receiving equipment. Take precautionary measures against static discharge. Keep container tightly closed.

### Conditions for safe storage:

Store in cool, dry and well ventilated place. Containers should be clearly identified, clear of obstructions and accessible only to authorized personnel. Protect from sunlight. Have appropriate fire extinguishers/sprinkler system in place. Spill clean-up equipment should be in or near storage area.

### Incompatible materials:

Strong oxidizers, Strong acids.

## Section 8 – Exposure Controls/Personal Protection

### Exposure limits:

Chemical Name	ACGIH-TLV	OSHA-PEL
Isopropyl alcohol	200ppm	400ppm
Dimethyl benzyl ammonium chloride	Not available	Not available
Sodium Nitrite	Not available	Not available

### Exposure controls:

**Ventilation and engineering measures:** Use in well ventilated area. Apply technical measures to comply with occupational exposure limits if needed.

**Section 8 – Exposure Controls/Personal Protection (Continued)**

**Respiratory measures:** If airborne concentrations are above the permissible exposure limit use NIOSH approved respirators.

**Skin Protection:** Wear protective gloves. Where extensive exposure to the product is possible, use resistant apron/suit and boots.

**Eye/face Protection:** Goggles or safety glasses with side shields.

**Other Protective equipment:** Ensure that eyewash stations and a safety shower are close to the workstation(s).

**General hygiene considerations:** Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when using this product. Wash hands after handling. Remove and wash all contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

**Section 9 – Physical and Chemical Properties**

**Appearance:** Clear dark blue liquid.

**Odor:** Alcohol/disinfectant odor.

**Odor threshold:** Not available

**PH:** 10.0-12.0

**Melting/Freezing pointing:** Not available

**Boiling point and boiling range:** >100C (212F)

**Flash point:** >33.3°C (92°F)

**Evaporation point (Butyl Acetate=1):** Not available

**Flammability (method determination):** Small Scale closed cup, ASTM D3278/D3828

**Lower flammability limit (% by vol.):** Not available

**Upper flammability limit (% by vol.):** Not available

**Vapor pressure:** Not available

**Vapor density:** Not available

**Relative density:** 0.99-1.02

**Solubility in water:** Complete

**Partition Coefficient (n-octanol/water):** Not available

**Auto ignition temperature:** Not available

**Decomposition temperature:** Not available

**Viscosity:** Not available

**Volatiles (% by wt) = 14%**

**Volatile organic compounds:** Isopropyl alcohol, Dimethyl benzyl ammonium chloride

**Other physical/chemical comments:** No addition information.

## Section 10 – Stability and Reactivity

**Reactivity:** Not normally reactive.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** Hazardous polymerization does not occur.

**Conditions to avoid:** Heat. Contact with incompatible materials.

**Incompatible materials:** Strong oxidizers, Strong acids.

**Hazardous decomposition products:** Carbon oxides.

## Section 11 – Toxicological Information

**Information on routes of exposure:**

**Routes of entry-inhalation:** YES

**Routes of entry-skin & eye:** YES

**Routes of entry-Ingestion:** YES

**Routes of entry-skin absorption:** YES

### Potential Health Effects:

**Signs and symptoms of short term exposure:**

*Signs and symptoms:* Inhalation – May cause respiratory irritation. May cause headache, nausea, dizziness and other symptoms of central nervous system depression.

*Signs and symptoms:* Ingestion – Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

*Signs and symptoms:* Skin – May cause irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

*Signs and symptoms:* Eyes – May cause severe irritation.

**Potential Chronic Health Effects:** None known

**Mutagenicity:** Not hazardous by OSHA/WHMIS criteria.

**Carcinogenicity:** No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

**Reproductive effects:** Not hazardous by OSHA/WHMIS criteria.

**Sensitization to material:** No data available to indicate product may be a sensitizer.

**Specific target organ effects:** Not Available.

**Medical conditions aggravated by overexposure:** Pre-existing skin and eye conditions.

### Section 11 – Toxicological Information (Continued)

**Toxicological data:** The calculated ATE value for this mixture is above classification parameters.

ATE (oral) = 2,912mg/kg

Chemical Name	LD50-Oral	Dermal
Isopropyl alcohol	5000mg/kg (rat)	12,800mg/kg (rabbit)
Dimethyl benzyl ammonium chloride	>2000mg/kg (rabbit)	>2000mg/kg (rabbit)
Sodium Nitrite	85mg/kg (rat)	Not available

### Section 12 – Ecological Information

**Ecotoxicity:** May be dangerous to the environment. No data is available on the product itself. Should not be released directly into the environment.

**Mobility in Soil:** This product itself has not been tested.

**Persistence and degradability:** This product itself has not been tested.

**Bioaccumulation potential:** This product itself has not been tested.

**Other adverse Environmental effects:** None Known.

### Section 13 – Disposal Information

**Handling for disposal:** Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

**Methods of disposal:** Dispose in accordance with all applicable federal, state, provincial and local regulation. Contact your federal, state, provincial and local authorities for specific rules.

### Section 14 – Transportation Information

**US 49 CFR/DOT Hazard Classification:**

UN No.:	UN1993
UN Proper shipping name:	Flammable liquid, N.O.S., (Isopropyl alcohol)
Transport hazard class:	3
Packing group:	III
ERG:	154

**Special Transportation Notes:** Not regulated per alcohol exemption (CFR 49 173.150(e)) or Limited Quantity exemption (CFR 49 173.150(b)).

DOT Marine Pollutants: This product does not contain Marine Pollutants as defined in CFR 49 171.8.

**Section 14 – Transportation Information (Continued)****IMDG/IMO Code Shipping Classification:**

UN No.: UN1993  
UN Proper shipping name: Flammable liquid, N.O.S., (Isopropyl alcohol)  
Transport hazard class: 3  
Packing group: III  
ERG: 154

Not classified as a marine pollutant.

**ICAO/IATA Air Transport Classification**

UN No.: UN1993  
UN Proper shipping name: Flammable liquid, N.O.S., (Isopropyl alcohol)  
Transport hazard class: 3  
Packing group: III  
ERG: 154

**Section 15 – Regulatory Information****US Federal Information:**

**TSCA:** All listed ingredients appear on the Toxic Substances Control Act.

**US CERCLA Reportable quantity (RQ):** Sodium Nitrite (100lbs.)

**SARA Title III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355:**

No extremely hazardous substances are present in this material.

**SARA Title III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes:**

Reactive Hazard, Acute Health Hazard, Chronic Health Hazard. Under SARA Section 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

**SARA Title III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372:**

This product contains Isopropyl alcohol and sodium nitrite.

**State Regulations:**

**California Proposition 65:** This product does not contain a chemical known to the State of California to cause, birth defects or other reproductive harm.

**International Information:**

**Canadian Environmental Protection Act (CEPA) information:** All ingredients listed appear on the Domestic Substances List (DSL).



**Section 16 – Other Information****HMIS – Hazardous Materials Identification System**

Health -2      Flammability -2      Physical Hazard -1      PPE –B

**NFPA – National Fire Protection Association**

Health -2      Flammability -2      Reactivity -1

**Abbreviations legend:****ACGIH: American Conference of Governmental Industrial Hygienist****CAS: Chemical abstract Services****CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980****CFR: Code of Federal Regulations****CSA: Canadian Standards Association****DOT: Department of Transportation****ECOTOX: U.S. EPA Ecotoxicology Database****EINECS: European Inventory of Existing Commercial chemical Substances****EPA: Environmental Protection agency****HSDB: Hazardous Substances database****IARC: International Agency for Research on Cancer****IBC: Intermediate Bulk Container****IUCLID: International Uniform Chemical Information Database****LC: Lethal Concentration****LD: Lethal Dose****NIOSH: National Institute of Occupational Safety and Health****NTP: National Toxicology Program****OECD: Organization for Economic Cooperation and Development****PEL: Permissible exposure limit****RCRA: Resource Conservation and Recovery Act****RTECS: Registry of Toxic Effects of Chemical Substances****SARA: Superfund Amendments and Reauthorization Act****SDS: Safety Data Sheet****STEL: Short Term Exposure Limit****TDG: Canadian Transportation of Dangerous Goods Act & Regulations****TLV: Threshold Limit Values****TWA: Time Weighted Average****WHMIS: Workplace Hazardous Materials Identification System****Disclaimer**

The information continued herein is based on the manufactures' own study and the work of others, implied, as to the accuracy, completeness or adequacy of the information contained herein, and neither the provider nor the manufacturer (nor the agents, directors, officers, contractors or employees of either) are liable to any party for any damages of any nature, including direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of any information in this SDS, or in any other way related (directly or indirectly) to this SDS. The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for the safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any other process.

King Research, Inc  
7025 W. Marcia Rd.  
Milwaukee, WI 53223

Issue Date 6-Dec-2004

Revision Date: 7-Jan-2014

Version 3

## 1. IDENTIFICATION

**Product Identifier**

Product Name Barbicide Plus

**Other means of identification**

SDS # 26700-0114

UN/ID No UN2924

Other Information R&D #RDY-53-2MOD  
Item No(s). BARB26708

**Recommended use of the chemical and restrictions on use**

Recommended Use A concentrated germicidal detergent formulated with synthetic phenols, anionic surfactants and alcohol.

**Details of the supplier of the safety data sheet**

**Manufacturer Address**

Central Solutions, Inc.  
401 Funston Rd.  
Kansas City, KS 66115

**Emergency Telephone Number**

Company Phone Number 913-621-6542 (M-F 8am to 4:30pm, CST)  
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

Appearance Clear, dark blue

Physical State Liquid

Odor Mild lavender

**Classification**

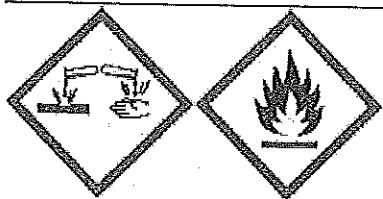
Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Flammable Liquids	Category 3

**Signal Word**

Danger

**Hazard Statements**

Causes severe skin burns and eye damage  
Flammable liquid and vapor



This product is a U.S. EPA Registered pesticide, EPA Reg. No. 211-36, and is subject to specific labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide products.

#### Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge

#### Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor/physician  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Get medical attention if symptoms persist  
 IF SWALLOWED: Call a poison center or doctor/physician  
 Do not induce vomiting. Rinse mouth. Never give anything by mouth to a person who is unconscious or convulsing.  
**Note to physician:** If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.  
 IN CASE OF FIRE: Use CO<sub>2</sub>, dry chemical, or foam for extinction

#### Precautionary Statements - Storage

Store locked up – KEEP OUT OF THE REACH OF CHILDREN  
 Store in a well-ventilated place. Keep cool.

#### Precautionary Statements - Disposal

Clean container promptly after emptying.  
 Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

#### Other Hazards

Toxic to aquatic life

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Isopropyl Alcohol	67-63-0	5-10
Ortho-benzyl-para-Chlorophenol	120-32-1	1-5
Para-tertiary Amylphenol	80-46-6	1-5
2-Phenylphenol	90-43-7	1-5
Sodium hydroxide	1310-73-2	1-3

#### 4. FIRST-AID MEASURES

##### First Aid Measures

<b>General Advice</b>	Provide this SDS to medical personnel for treatment. Always get medical attention when product is swallowed or when symptoms are significant or persist.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
<b>Skin Contact</b>	Wash liberally with soap and water. If on clothes: Wash before reuse. If symptoms persist, call a physician.
<b>Inhalation</b>	Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician / poison center if individual's condition declines or if symptoms persist.
<b>Ingestion</b>	If patient is conscious and alert, dilute by drinking milk, egg whites or large quantities of water. Do not induce vomiting without medical advice. Get medical attention immediately.

##### Most important symptoms and effects

<b>Symptoms</b>	<p>If in eyes: Burning sensation, watering, or redness.</p> <p>If on skin: Redness, irritation, or burning sensation with prolonged exposure.</p> <p>If spray mist is inhaled: Possible lung damage, irritation and/or burning sensation.</p> <p>If swallowed: Drowsiness, irregular pulse, loss of consciousness. Possible gastrointestinal irritation or disturbance such as cramps and stomach pains.</p>
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##### Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician</b>	If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.
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#### 5. FIRE-FIGHTING MEASURES

##### Suitable Extinguishing Media

Alcohol resistant foam, carbon dioxide, or dry chemical.

**Unsuitable Extinguishing Media** Not determined.

##### Specific Hazards Arising from the Chemical

Flammable liquid and vapor.

**Hazardous Combustion Products** Burning may release combustion products such as Phenolics, carbon monoxide, carbon dioxide, and chlorine.

**Sensitivity to Static Discharge** Take precautionary measures against static discharge.

##### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to keep exposed containers cool to prevent bursting.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures

<b>Personal Precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
<b>Environmental Precautions</b>	See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Absorb spill with an inert absorbent material.

**Methods for Clean-Up** Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. This product is toxic to fish and aquatic organisms.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Do not contaminate water, food, or feed. Do not reuse empty containers. Keep containers clean and closed. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Ground/bond container and receiving equipment. Use non-sparking hand tools and explosion-proof electrical equipment. Take precautionary measures against static discharges. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep out of the reach of children. Store locked up. Keep cool. Do not store near ignition sources or at temperatures above 120°F.

**Incompatible Materials** Strong oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl Alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m <sup>3</sup> (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m <sup>3</sup>	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Controls** Mechanical (General): Normally Sufficient  
Local Exhaust: Not Normally Needed.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** USE Safety Glasses when splashing or spraying of the product into the eyes is likely or possible.

**Skin and Body Protection** Gloves are required for exposure to the concentrate when diluting or for long exposures to end-use dilutions. Persons sensitive to cleaning chemicals should always wear gloves.

**Respiratory Protection** General ventilation is normally adequate. Use appropriate respiratory protection if application method produces a fine spray or mists.

**General Hygiene Considerations** Wash hands after using. Do not get into eyes, on skin, or clothing. May be harmful if swallowed. Protect food and drink from contamination by product. Wash contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Odor</b>	Mild lavender
<b>Appearance</b>	Clear, dark blue liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	dark blue		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
pH	11.50-12.50		
Melting Point/Freezing Point	Not available		
Boiling Point/Boiling Range	100 °C / 212 °F		
Flash Point	46.11 °C / 115 °F		
Evaporation Rate	Not established		
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	Not determined		
Lower Flammability Limit	Not determined		
Vapor Pressure	Not established		
Vapor Density	Not established		
Specific Gravity	1.05-1.07		
Water Solubility	Completely soluble		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		
Density	8.75-8.92 lbs/gal		

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to Avoid

Extreme high temperatures, sparks and open flames. Incompatible Materials.

### Incompatible Materials

Strong oxidizing agents.

### Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Eye Contact</b>	Causes severe eye damage.
<b>Skin Contact</b>	Causes severe skin burns.
<b>Inhalation</b>	Avoid breathing vapors or mists. May cause irritation to the mucous membranes and upper respiratory tract.
<b>Ingestion</b>	Ingestion causes burns of the upper digestive and respiratory tracts.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl Alcohol 67-63-0	= 4396 mg/kg ( Rat )	= 12800 mg/kg ( Rat ) = 12870 mg/kg ( Rabbit )	= 72.6 mg/L ( Rat ) 4 h
Ortho-benzyl-para-Chlorophenol 120-32-1	= 1700 mg/kg ( Rat )		
Para-tertiary Amylphenol 80-46-6	= 1830 mg/kg ( Rat )	= 2 g/kg ( Rabbit )	
2-Phenylphenol 90-43-7	= 1049 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	> 0.949 mg/L ( Rat ) 1 h
Sodium hydroxide 1310-73-2		= 1350 mg/kg ( Rabbit )	

### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl Alcohol 67-63-0		Group 3		X
2-Phenylphenol 90-43-7		Group 3		

*IARC (International Agency for Research on Cancer)*

*Group 3 IARC components are "not classifiable as human carcinogens"*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

*X - Present*

### Numerical measures of toxicity

Not determined

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Toxic to aquatic organisms.

### Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Isopropyl Alcohol 67-63-0	1000: 96 h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50	9640: 96 h Pimephales promelas mg/L LC50 flow-through 11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50		13299: 48 h Daphnia magna mg/L EC50
Para-tertiary Amylphenol 80-46-6		1.87 - 3.34: 96 h Pimephales promelas mg/L LC50 flow-through 1.6: 96 h Cyprinus carpio mg/L LC50		
2-Phenylphenol 90-43-7	0.85: 72 h Desmodesmus subspicatus mg/L EC50	3.4: 96 h Pimephales promelas mg/L LC50 flow-through 2.74: 96 h Lepomis macrochirus mg/L LC50 2.75: 96 h Oncorhynchus mykiss mg/L LC50 5.8: 96 h Poecilia reticulata mg/L LC50 static	EC50 = 2.05 mg/L 5 min	1 - 2.5: 48 h Daphnia magna mg/L EC50 Static
Sodium hydroxide 1310-73-2		45.4: 96 h Oncorhynchus mykiss mg/L LC50 static		

### Persistence/Degradability

Not determined

### Bioaccumulation

Not determined

### Mobility

Chemical Name	Partition Coefficient
Isopropyl Alcohol 67-63-0	0.05
2-Phenylphenol 90-43-7	3.18

### Other Adverse Effects

Not determined

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

#### Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### Contaminated Packaging

Clean container promptly after emptying.  
Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.



Chemical Name	California Hazardous Waste Status
Isopropyl Alcohol 67-63-0	Toxic Ignitable
Sodium hydroxide 1310-73-2	Toxic Corrosive

**14. TRANSPORT INFORMATION**

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** Product packaged <1-gallon is shipped as Limited Quantity  
 UN/ID No UN2924  
 Proper Shipping Name Flammable liquid, corrosive, n.o.s. (Isopropanol, Sodium hydroxide)  
 Hazard Class 3  
 Subsidiary Hazard Class 8  
 Packing Group III

**IATA**  
 UN/ID No UN2924  
 Proper Shipping Name Flammable liquid, corrosive, n.o.s. (Isopropanol, Sodium hydroxide)  
 Hazard Class 3  
 Subsidiary Hazard Class 8  
 Packing Group III

**IMDG**  
 UN/ID No UN2924  
 Proper Shipping Name Flammable liquid, corrosive, n.o.s. (Isopropanol, Sodium hydroxide)  
 Hazard Class 3  
 Subsidiary Hazard Class 8  
 Packing Group III  
 Marine Pollutant This material may meet the definition of a marine pollutant

**15. REGULATORY INFORMATION**

**International Inventories**

Not determined

**Legend:**

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*
- IECSC - China Inventory of Existing Chemical Substances*
- KECL - Korean Existing and Evaluated Chemical Substances*
- PICCS - Philippines Inventory of Chemicals and Chemical Substances*

**US Federal Regulations**

**CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium hydroxide 1310-73-2	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

**SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Isopropyl Alcohol - 67-63-0	67-63-0	5-10	1.0
Ortho-benzyl-para-Chlorophenol - 120-32-1	120-32-1	1-5	0.1
2-Phenylphenol - 90-43-7	90-43-7	1-5	1.0

**CWA (Clean Water Act)**

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ortho-benzyl-para-Chlorophenol 120-32-1 ( 1-5)		X		
Sodium hydroxide 1310-73-2 ( 1-3)	1000 lb			X

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
2-Phenylphenol - 90-43-7	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Isopropyl Alcohol 67-63-0	X	X	X
Ortho-benzyl-para-Chlorophenol 120-32-1	X		X
Para-tertiary Amylphenol 80-46-6		X	X
2-Phenylphenol 90-43-7	X	X	X
Sodium hydroxide 1310-73-2	X	X	X

**16. OTHER INFORMATION**NFPAHMIS**Health Hazards**

Not determined

**Health Hazards**

2

**Flammability**

Not determined

**Flammability**

2

**Instability**

Not determined

**Physical Hazards**

0

**Special Hazards** Not determined**Personal Protection**B- Safety Glasses,  
Gloves

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet